
OHS21710

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MDL INFORMATION SYSTEMS, INC. 1281 Murfreesboro Road, Suite 300 Nashville, TN 37217-2423 1-615-366-2000 EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 (NORTH AMERICA) 1-703-527-3887 (INTERNATIONAL)

SUBSTANCE: SODIUM THIOSULFATE

TRADE NAMES/SYNONYMS:

THIOSULFURIC ACID (H2S2O3), DISODIUM SALT; THIOSULFURIC ACID, DISODIUM SALT; DISODIUM THIOSULFATE; SODIUM HYPOSULFITE; SODIUM THIOSULFATE ANHYDROUS; SODIUM THIOSULPHATE; DISODIUM THIOSULPHATE; SODIUM THIOSULFATE (NA2S2O3); SODIUM OXIDE SULFIDE (NA2S2O3); HYPO; SODOTHIOL; CHLORINE CONTROL; S-HYDRIL; CHLORINE CURE; DECHLOR-IT; KODAK FARMER'S REDUCER PART B; NA2S2O3; OHS21710; RTECS XN6476000

CHEMICAL FAMILY: inorganic, salt

CREATION DATE: Apr 18 1986 REVISION DATE: Mar 22 2001

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: SODIUM THIOSULFATE

CAS NUMBER: 7772-98-7

EC NUMBER (EINECS): 231-867-5

PERCENTAGE: 100

._____

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0

EMERGENCY OVERVIEW:

CHANGE IN APPEARANCE: hygroscopic

COLOR: colorless

PHYSICAL FORM: crystals, powder

ODOR: odorless

MAJOR HEALTH HAZARDS: No significant target effects reported.

OHS21710 SODIUM THIOSULFATE POTENTIAL HEALTH EFFECTS: INHALATION: SHORT TERM EXPOSURE: irritation LONG TERM EXPOSURE: no information is available SKIN CONTACT: SHORT TERM EXPOSURE: irritation LONG TERM EXPOSURE: no information is available EYE CONTACT: SHORT TERM EXPOSURE: irritation LONG TERM EXPOSURE: no information is available INGESTION: SHORT TERM EXPOSURE: diarrhea LONG TERM EXPOSURE: bluish skin color CARCINOGEN STATUS: OSHA: No NTP: No IARC: No SECTION 4 FIRST AID MEASURES INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention. SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse. EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention. INGESTION: If a large amount is swallowed, get medical attention. SECTION 5 FIRE FIGHTING MEASURES FIRE AND EXPLOSION HAZARDS: Negligible fire hazard. EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding

fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

OHS21710 SODIUM THIOSULFATE PHYSICAL STATE: solid COLOR: colorless CHANGE IN APPEARANCE: hygroscopic PHYSICAL FORM: crystals, powder ODOR: odorless MOLECULAR WEIGHT: 158.11 MOLECULAR FORMULA: NA2-S2-O3 BOILING POINT: Not applicable MELTING POINT: Not available VAPOR PRESSURE: Not applicable VAPOR DENSITY: Not applicable SPECIFIC GRAVITY (water=1): 1.667 WATER SOLUBILITY: 50% PH: 6.5-8.0 (solution) VOLATILITY: Not applicable ODOR THRESHOLD: Not available EVAPORATION RATE: Not applicable COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available SOLVENT SOLUBILITY: Insoluble: alcohol ______ SECTION 10 STABILITY AND REACTIVITY REACTIVITY: Stable at normal temperatures and pressure. CONDITIONS TO AVOID: None reported. INCOMPATIBILITIES: acids, oxidizing materials, halogens, metal salts, metals SODIUM THIOSULFATE: ACIDS: Reacts releasing sulfur dioxide. CHLORINE (SOLUTIONS): Forms sodium hydrosulfate. HALOGENS: Reacts. IODINE: Incompatible. LEAD SALTS: Incompatible. MERCURY: Incompatible. MERCURY SALTS: Incompatible. METAL NITRATES: May form explosive mixtures. OXIDANTS: Reacts. POTASSIUM: Incompatible.

POTASSIUM NITRATE: Mixture is explosive on heating.

SODIUM NITRITE: May explode violently on heat drying.

SODIUM NITRATE: Mixture is explosive on heating.

SILVER SALTS: Incompatible.

SODIUM: Incompatible.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of sulfur, sodium

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

SODIUM THIOSULFATE:

TOXICITY DATA:

5600 mg/kg intraperitoneal-mouse LD50 (J.T. Baker, Inc. MSDS); >2500 mg/kg intravenous-rat LD; 5200 mg/kg intraperitoneal-mouse LD50; 4 gm/kg

subcutaneous-rabbit LDLo; 6 gm/kg subcutaneous-frog LDLo

ACUTE TOXICITY LEVEL: Insufficient Data.

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

SODIUM THIOSULFATE: May cause irritation of the upper respiratory tract.

CHRONIC EXPOSURE:

SODIUM THIOSULFATE: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

SODIUM THIOSULFATE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM THIOSULFATE: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

SODIUM THIOSULFATE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM THIOSULFATE: No data available.

INGESTION:

ACUTE EXPOSURE:

SODIUM THIOSULFATE: Sodium thiosulfate is poorly absorbed from the bowel and acts as an osmotic cathartic. Ingestion of large amounts may cause diarrhea. The probable lethal dose for humans is $0.5-5.0~\rm{gm/kg}$.

CHRONIC EXPOSURE:

SODIUM THIOSULFATE: Human exposure to 300 mg/kg of the pentahydrate, for seven days, resulted in cyanosis. Sodium thiosulfite is permitted as a

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):

Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: No CHRONIC: No FIRE: No REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Not determined.

EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED): Not determined.

GERMAN REGULATIONS:

WATER HAZARD CLASS (WGK):

STATE OF CLASSIFICATION: VwVwS

CLASSIFICATION UNDER HAZARD TO WATER: 0

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

SECTION 16 OTHER INFORMATION

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